Algebra 2 Name_____ ID: 1

Assignment

Date_____ Period____

Solve each equation. Remember to check for extraneous solutions.

1) $\frac{r-3}{r^2} = \frac{1}{r^2} - \frac{1}{r}$

2) $\frac{p+2}{3p^2} = \frac{1}{3p^2} - \frac{p+4}{6p^2}$

3) $\frac{1}{4x^2} - \frac{1}{2x} = \frac{3}{2x^2}$

4) $\frac{n+2}{2n} - \frac{2}{n} = \frac{6}{n}$

5) $1 + \frac{1}{b} = \frac{3}{b}$

6) $\frac{5r-20}{4r^2} + \frac{1}{4r^2} = \frac{3}{r^2}$

7) $\frac{1}{r^2} + \frac{r-2}{r^2} = \frac{5}{4r^2}$

8) $\frac{1}{3x} + \frac{2}{3} = \frac{4}{x}$

9) $\frac{5r-4}{6r^2} = \frac{r-3}{6r^2} - \frac{1}{2r^2}$

10) $\frac{3}{m^2} + \frac{m+3}{m^2} = \frac{5}{3m^2}$

11) $\frac{1}{2n} + \frac{5}{n^2} = \frac{1}{2n^2}$

12) $\frac{1}{3} = \frac{5b+30}{6b} - 2$

13) $\frac{3x-15}{2x} = \frac{x-6}{2x} + \frac{1}{2}$

14) $\frac{1}{3m} = \frac{1}{m} - \frac{m-2}{m}$

15) $\frac{1}{6x} - \frac{2x-4}{x} = \frac{2}{3x}$

16) $\frac{3}{b^2} = \frac{5}{b} + \frac{1}{b^2}$

17) $\frac{v+4}{2v^2} - \frac{1}{v^2} = \frac{v+5}{v^2}$

18) $\frac{3}{2a^2} + \frac{1}{4a} = \frac{a+6}{a^2}$

19) $\frac{1}{a} - \frac{1}{4} = \frac{3a-12}{2a}$

20) $1 + \frac{1}{k} = \frac{2}{3k}$